

LWIR Continuous zoom – Commercial off the shelf lens

JASPER

LWIR 60-240mm F/2.76 Continuous zoom Lens
for 640 x 512 x 16 μ cooled detectors



FEATURES / APPLICATIONS / CAPABILITIES

- Ultra Compact continuous zoom lens
- Suitable for various applications
- Rugged design for harsh environments

	HFOV for Wide (60mm)				HFOV for Narrow (240mm)			
	640x512	1024x768	1280x1024	IFOV (mrad)	640x512	1024x768	1280x1024	IFOV (mrad)
15u	9.15°			0.014	2.3°			0.0036
16u	9.75°			0.015	2.44°			0.0038

PARAMETER		VALUE	NOTES
Main	Sub		

🕒 OPTICAL			
Focal Length / F#		60 – 240mm F/2.76	
Detector (FPA) type / size		Up to 640 x 512 x 16 μ	
Working Spectral Range		8 – 10 μ	
Optical Coatings	All internal surfaces	High efficiency AR coating	
	Front surface	High durability AR coating	DLC is available upon request
CSH		19-22mm	
⚙️ MECHANICAL			
Focus / Zoom mechanism		Motorized	
Through zoom boresight		≤ 0.15mm at the focal plane	
NFOV boresight retention		≤ 0.045mm at the focal plane	
Total Weight		830gr	
Ext. Dimensions \varnothing x length (mm)		97 x 103	
💡 ELECTRICAL			
Power Input		12VDC, 1.0 A	
Communication Protocol		RS-422 or 232	
🌿 ENVIRONMENTAL			
Operating/Storage Temperature		-25°C to +55°C / -30°C to +60°C	
Shock and Vibrations		Per applicable standard	
Front lens sealing		IP66	IP67 By request

*All values are nominal: to within $\pm 5\%$